Nenad IASPRICA and Marina CARIC

Biological Institute, DUBROVNIK (Croatia)

<text><section-header><text><text><text>



Distribution of the total phytoplankton carbon biomass (ug C/l) in the Gruz Fig and Mali Ston Bays

Tab. 1. Temperature (T), salinity (S) and microplanklon (M), nanoplankton (N) and total phytoplankton carbon biomass in the Gruz and Mali Ston Bays.

	Gruž Bay Range	(n=46) Mean	SD	Mali Ston Range	Bay () Mean	n≂83) SD
T (°C) S x 10 ³ M (μg C/1) N (μg C/1) Total (μg C/1)	12.9 - 26.1 26.55- 38.66 0.11-168.59 2.61- 78.03 3.07-246.62	9.47* 24.74* 33.94*	28.11 17.54 42.56	9.5 -26.8 28.31-38.87 0.24-55.23 2.79-29.5 5.01-64.32	6.28* 12.25* 18.53*	7.81 6.07 9.89

 $^\circ$ Means at the same line followed by * are significantly different (P<0.001, Student's t-test), SD = standard deviation

REFERENCES

EPPLEY R.W., REID F.M. and STRICKLAND J.D.H., 1970. The ecology of the plankton off La Jolla, California, in the period April through September 1967. III Estimates of phytoplankton crop size, growth rate and primary production. Bull. Scripps Inst. Oceanogr, 17: 33-42.
SMAYDA T.J., 1978.- From phytoplankters to biomass. In: Phytoplankton manual, A. SOURNIA ed., UNESCO, Paris: 273-279.
STRICKLAND J.D.H. and PARSONS T.R., 1972.- A practical handbook of seawater analysis. Bull. Fish. Res. Bd. Can., 167, 310 p.
UTERMOHL H., 1958.- Zur Vervollkommung der quantitativen Phytoplankton Methodik. Mitt. int. Ver. Limnol., 9: 1-38.
VILICIC D., 1989.- Phytoplankton population density and volume as indicators of eutrophication in the eastern part of the Adriatic Sea. Hydrobiologia, 174: 117-132.

Rapp. Comm. int. Mer Médit., 33, (1992).